

**Figure 1**

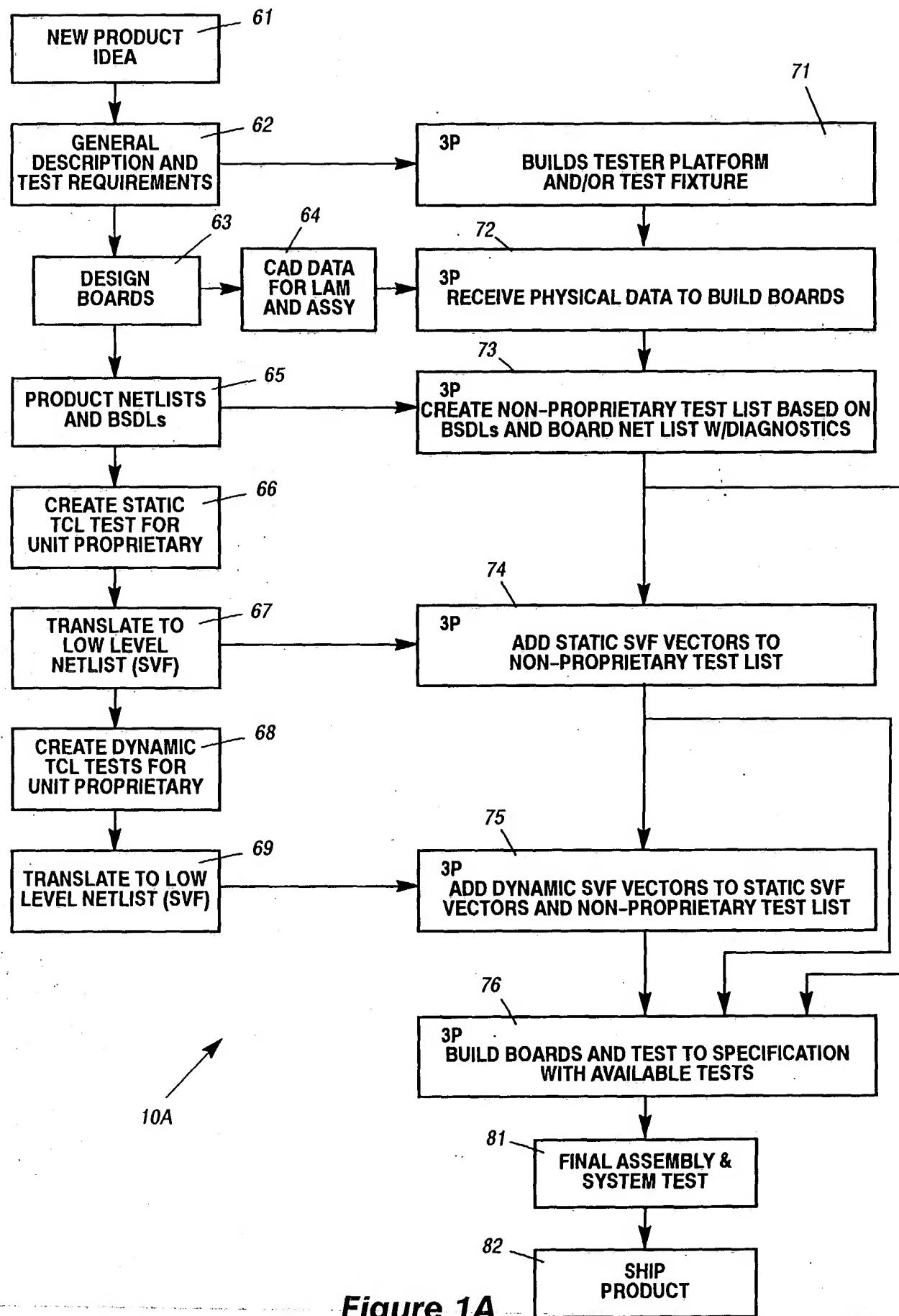
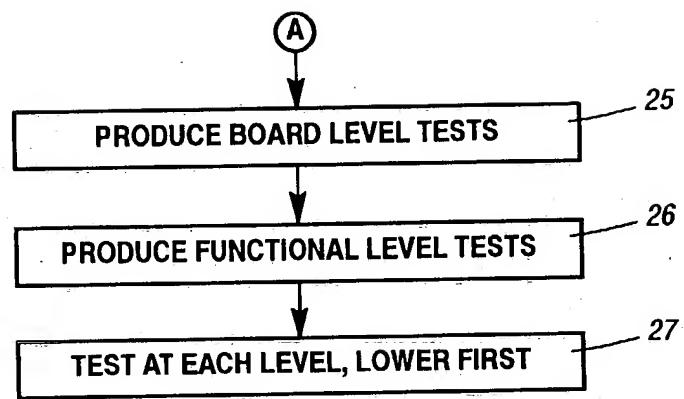
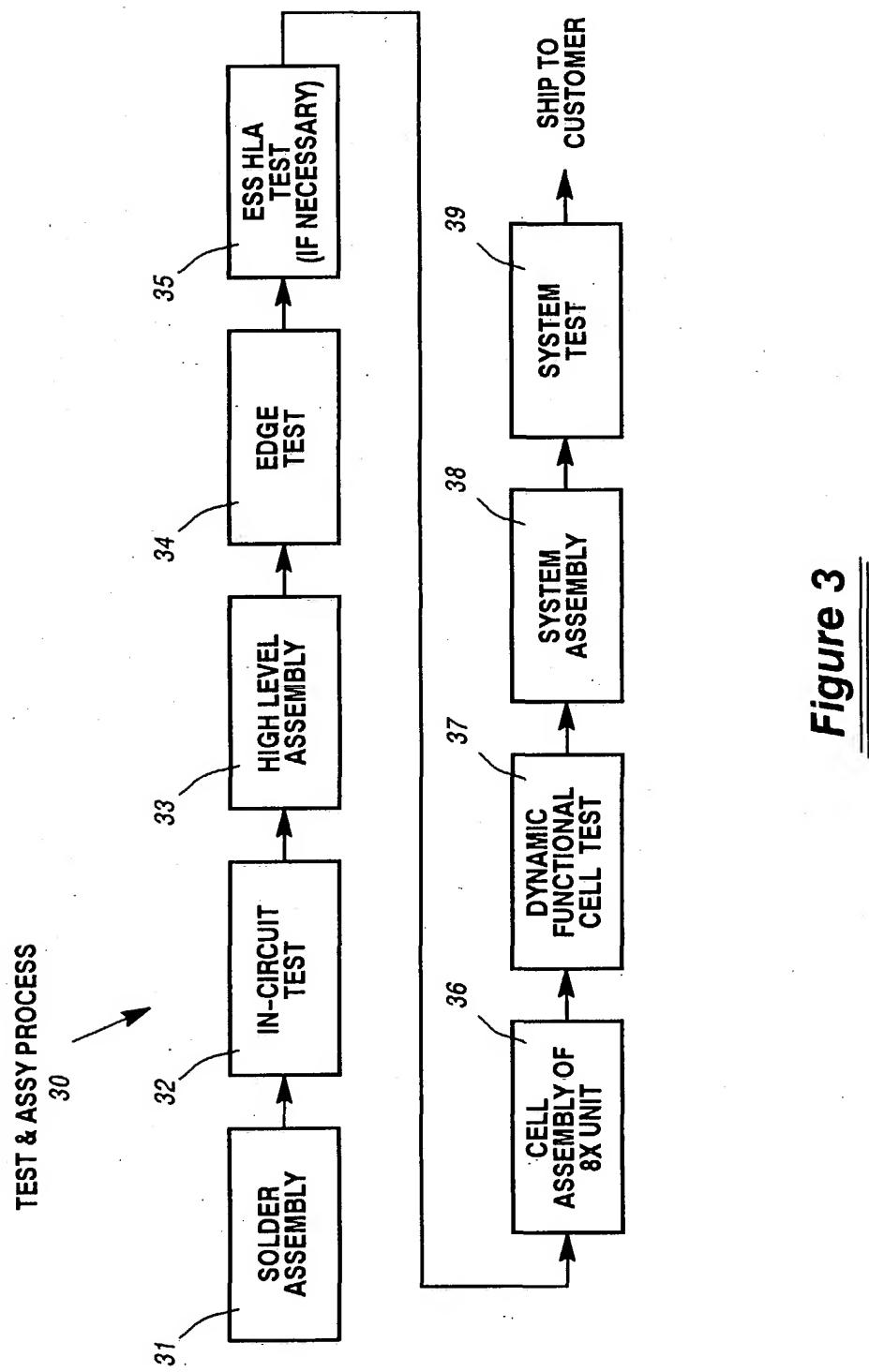


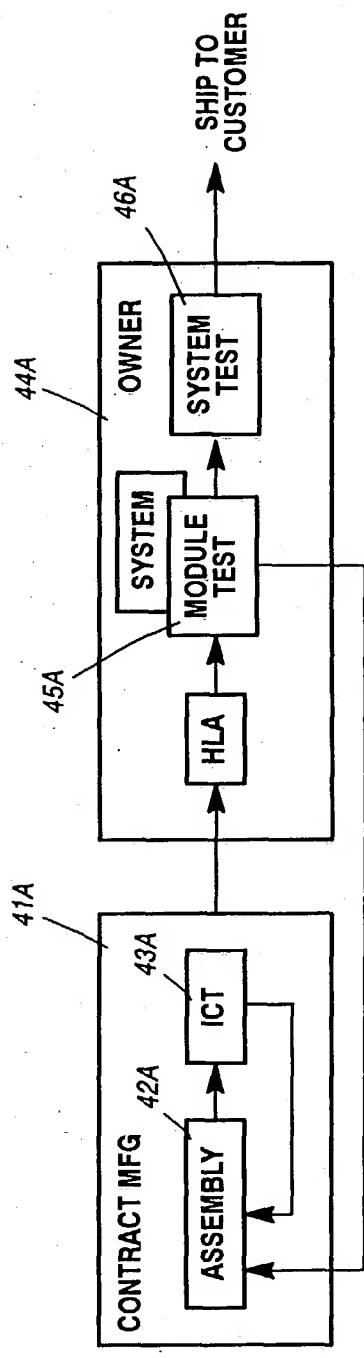
Figure 1A



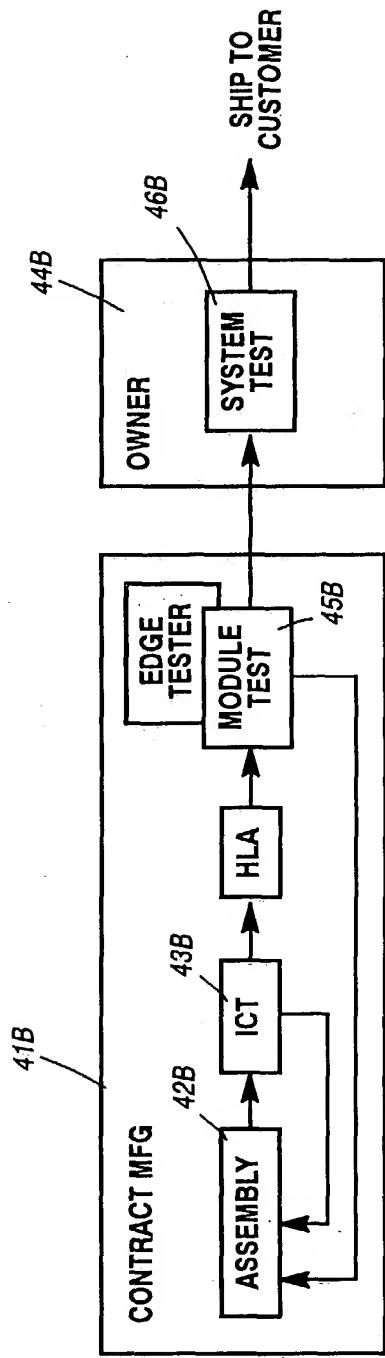
**Figure 2**



**Figure 3**

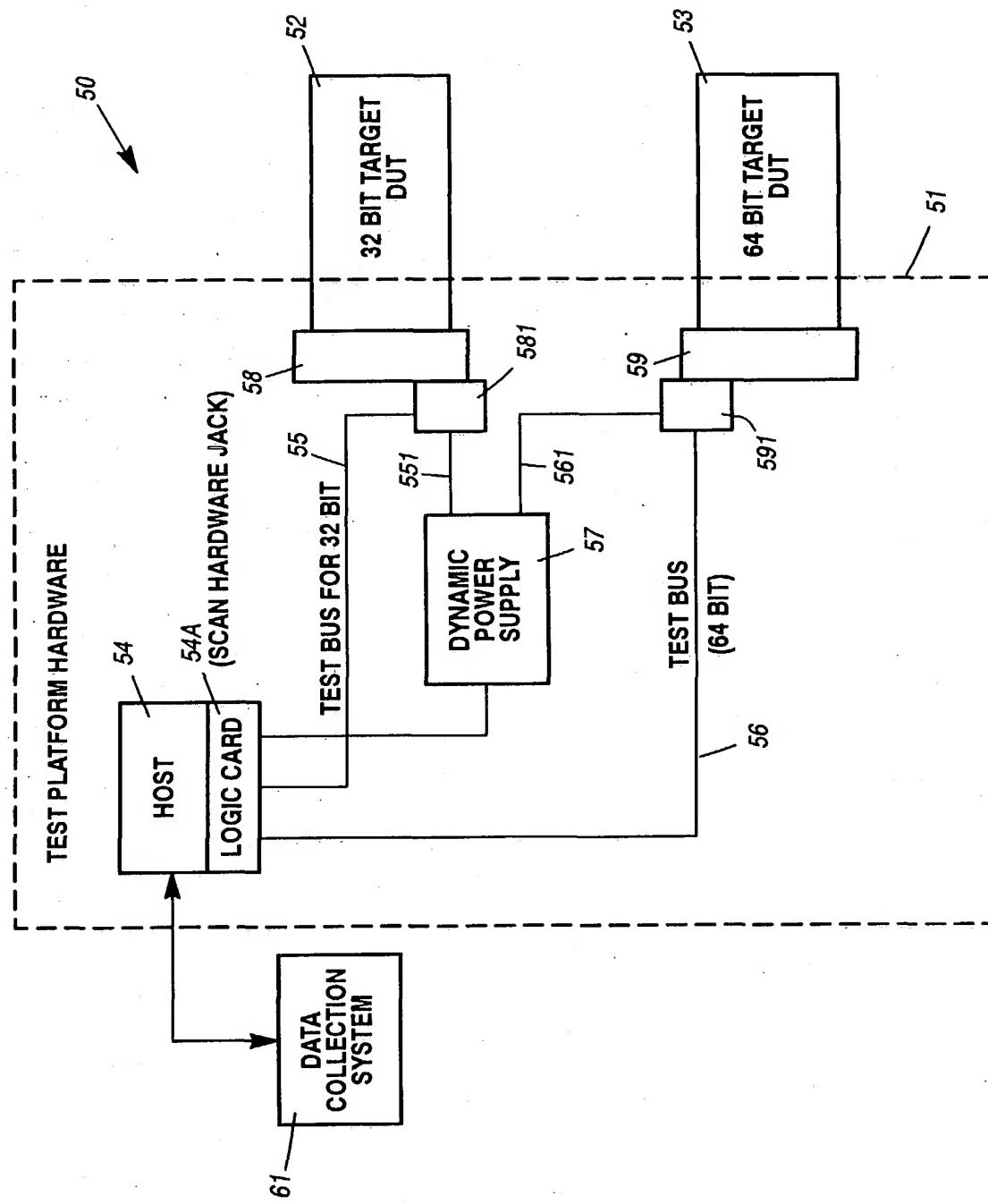


**Figure 4A**  
**Prior Art**

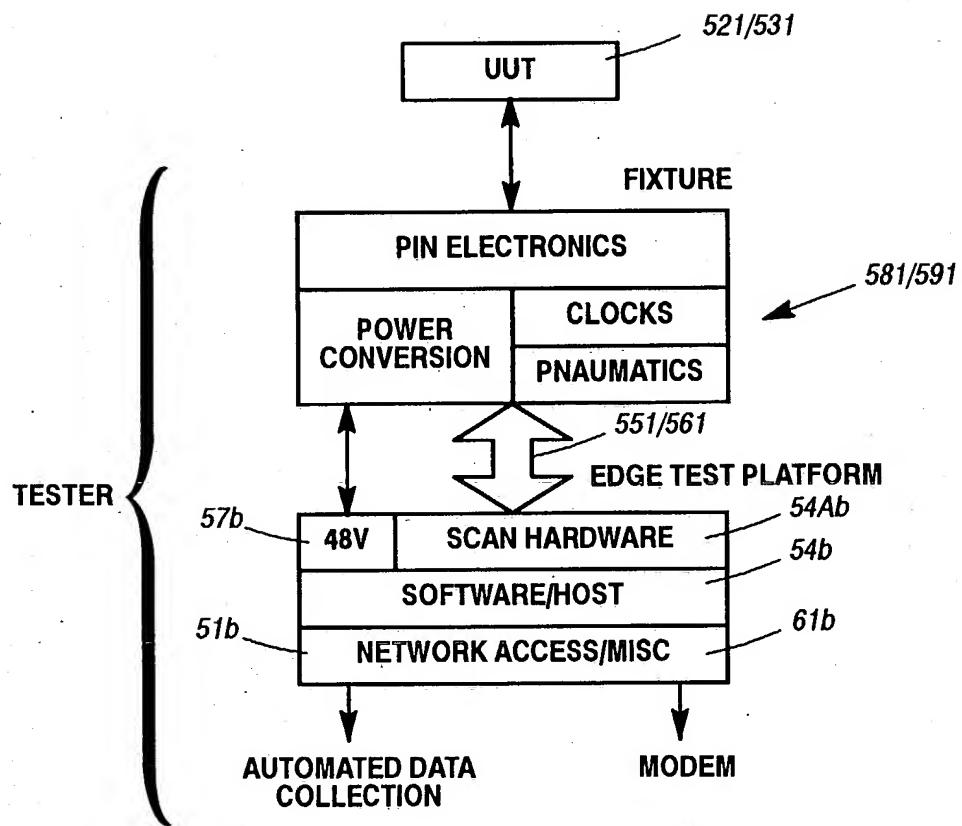


**FASTER FEEDBACK (DECREASED INVENTORY, QUICKER LEARNING, BETTER YIELD)  
IMPROVED DATA COLLECTION**

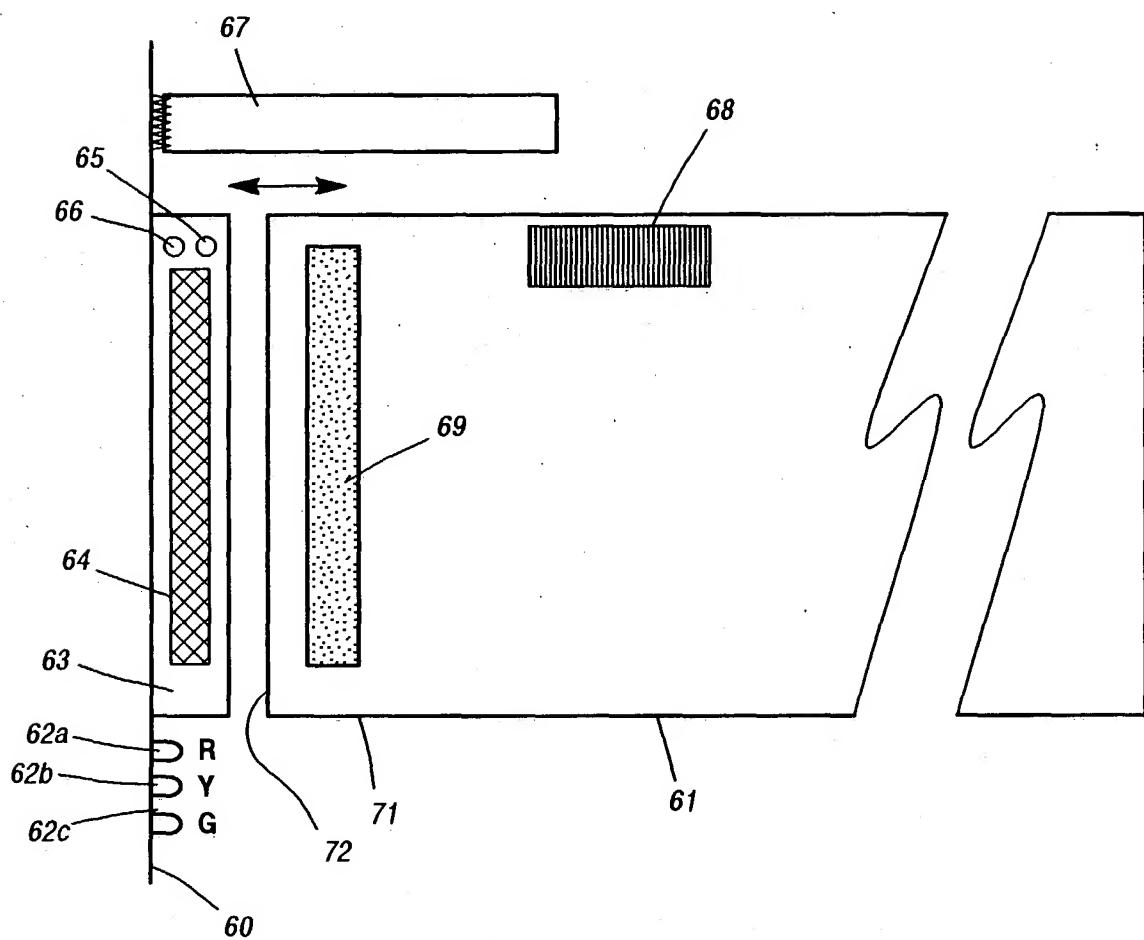
**Figure 4B**



**Figure 5A**



**Figure 5B**



**Figure 6**

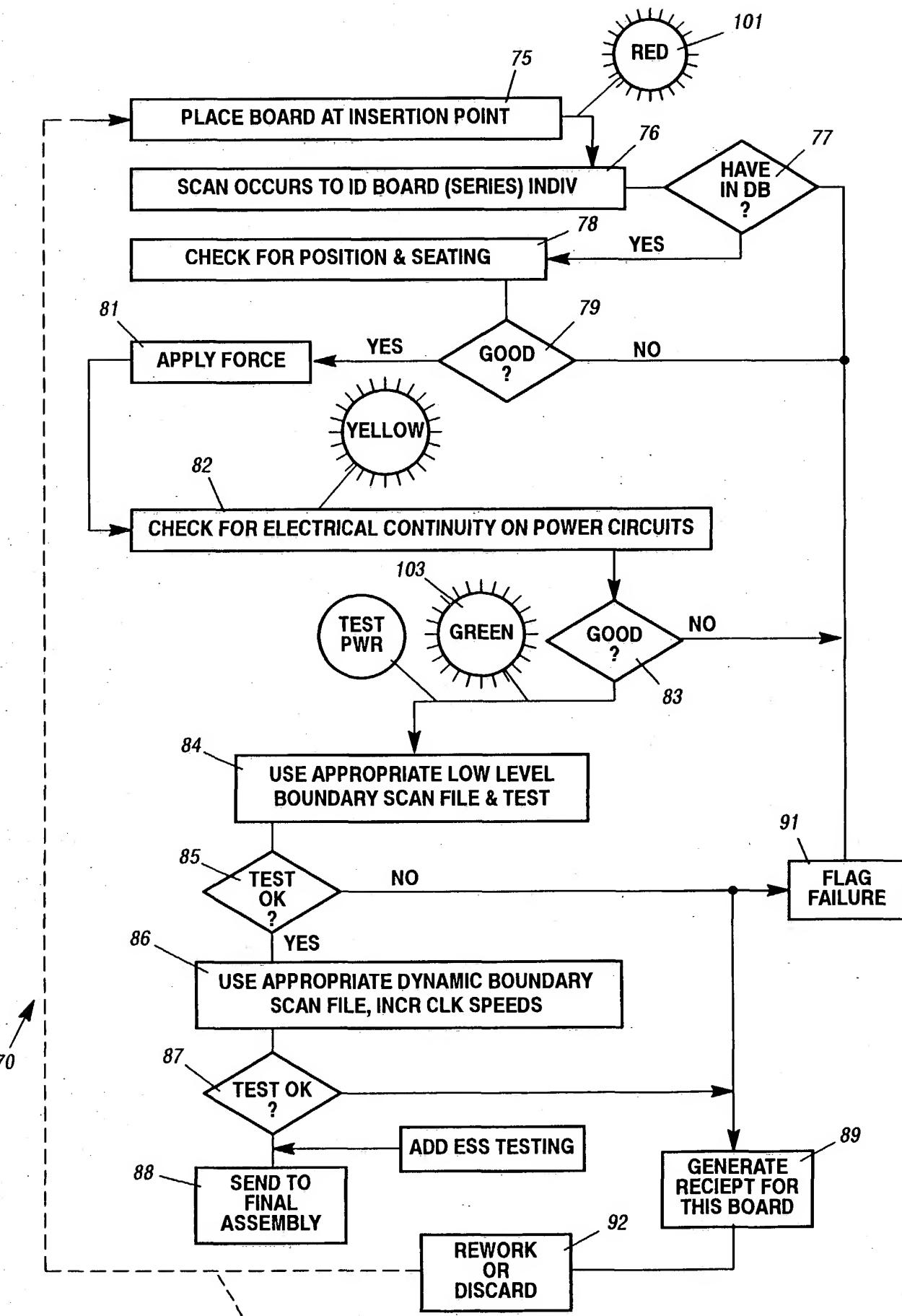
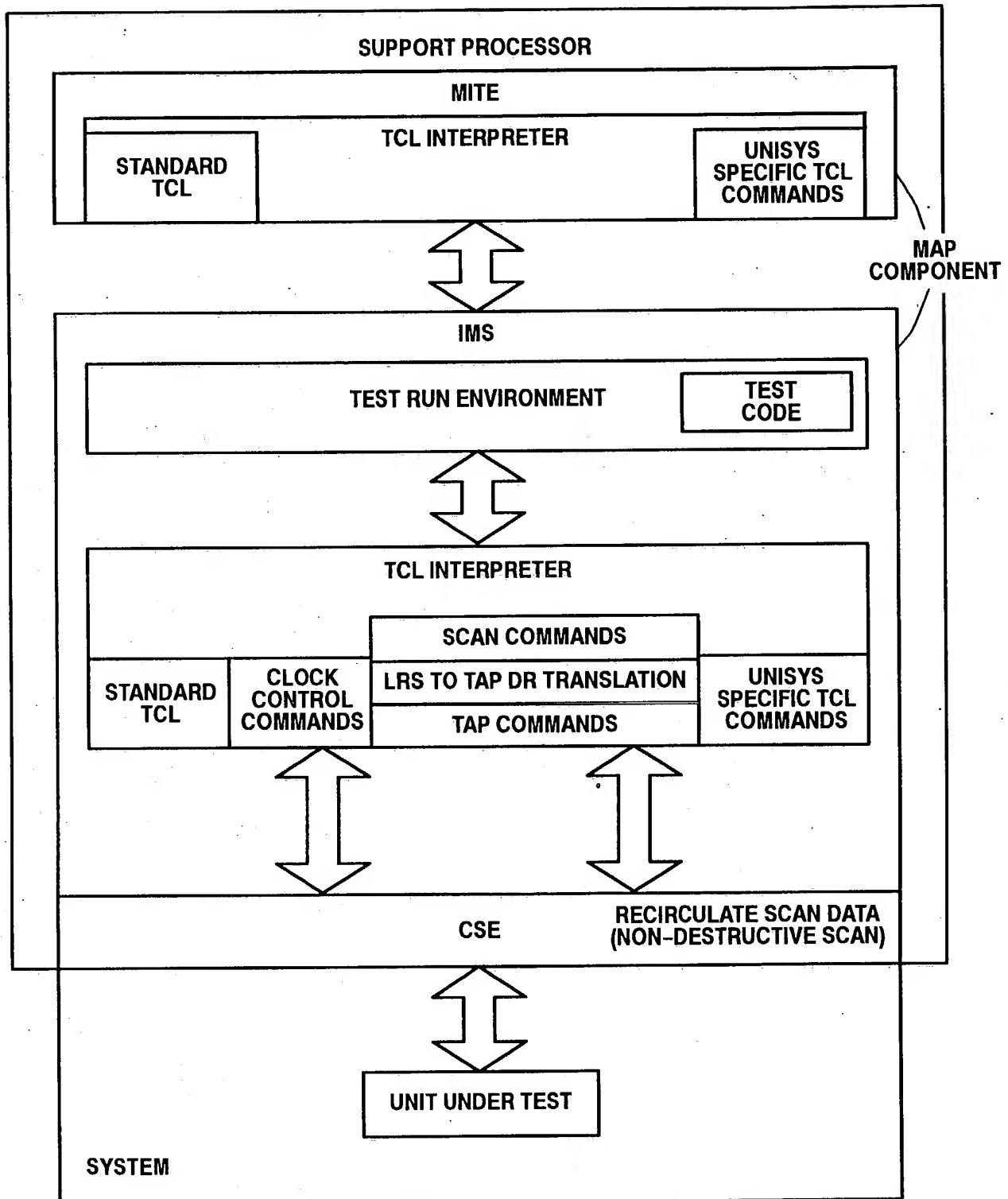
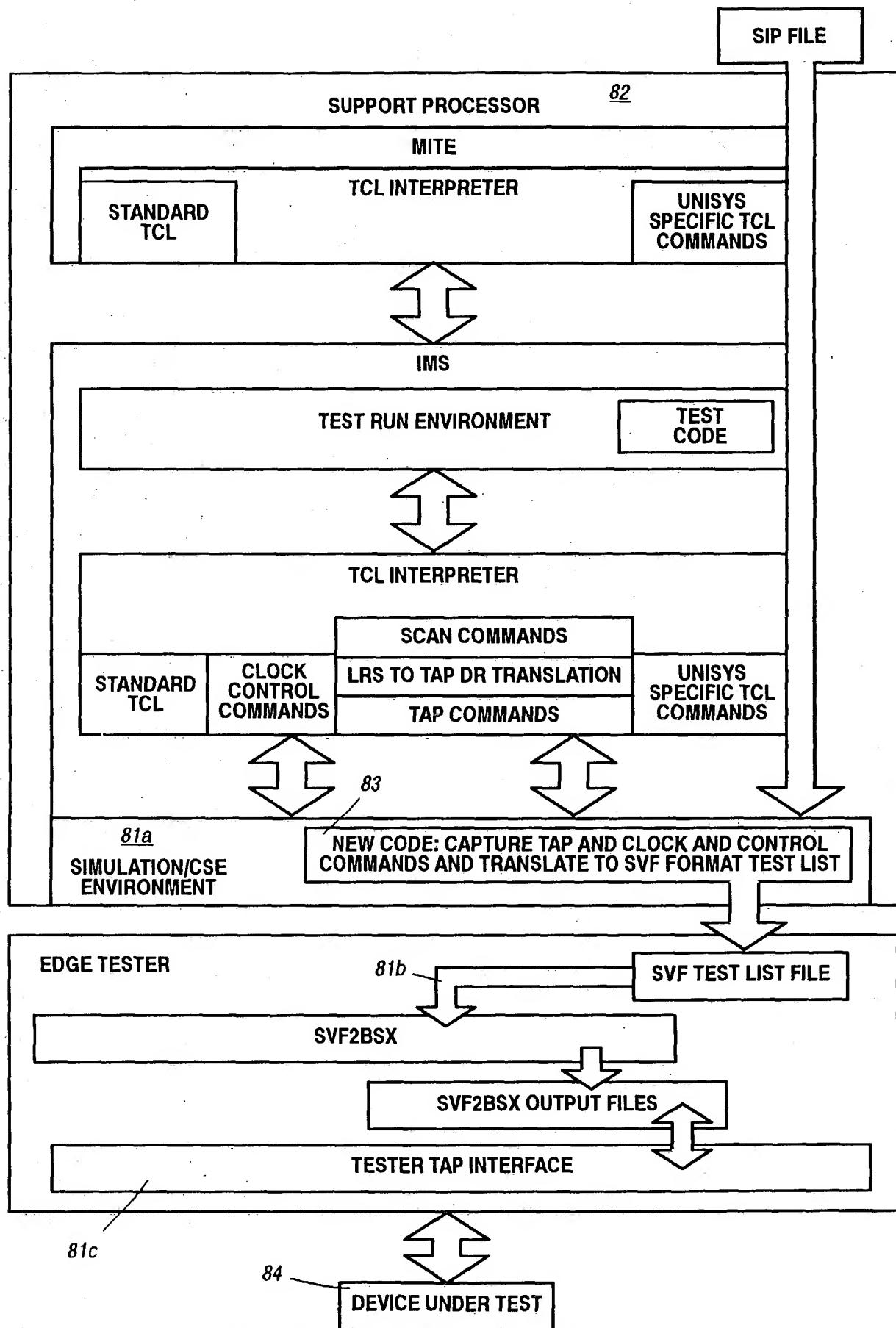


Figure 7

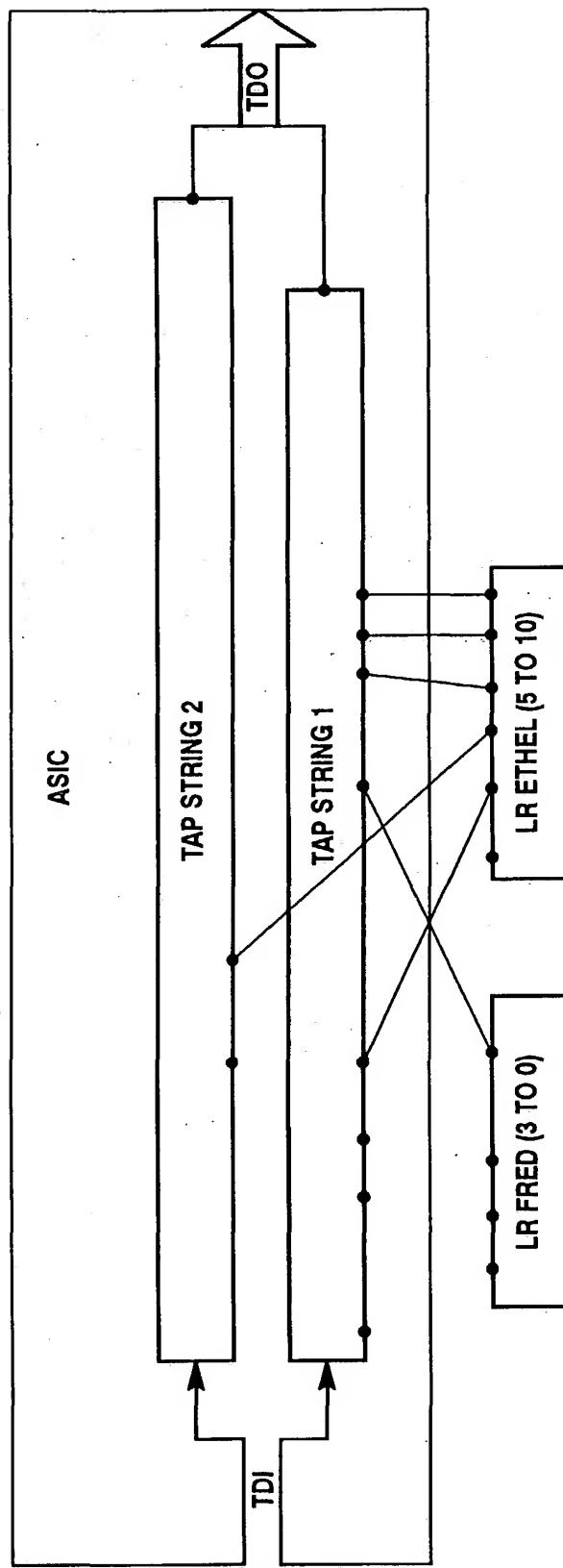


**(IN-HOUSE TESTING)**

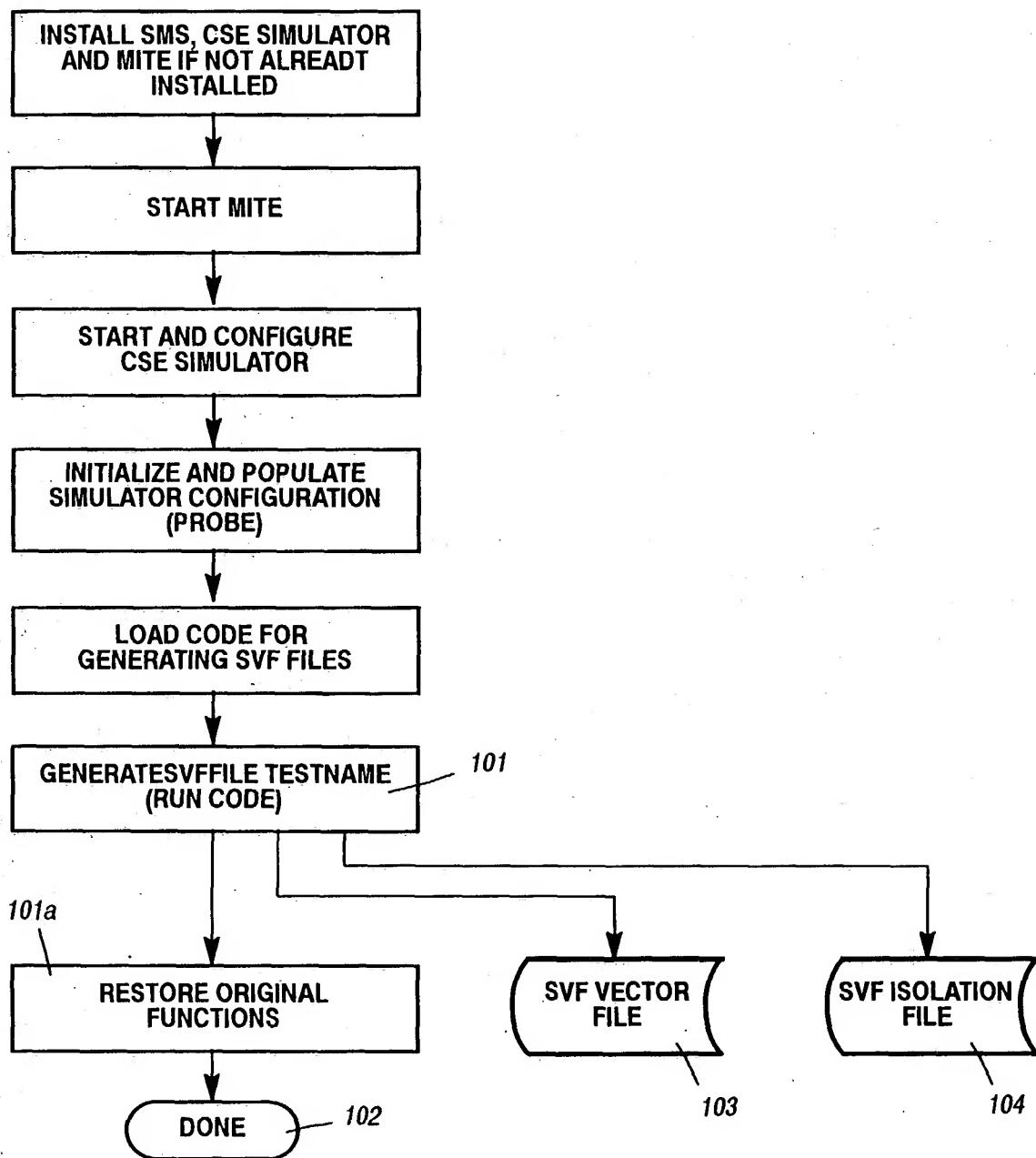
***Figure 8A***



(THIRD PARTY-ENABLED TESTING)  
Figure 8B

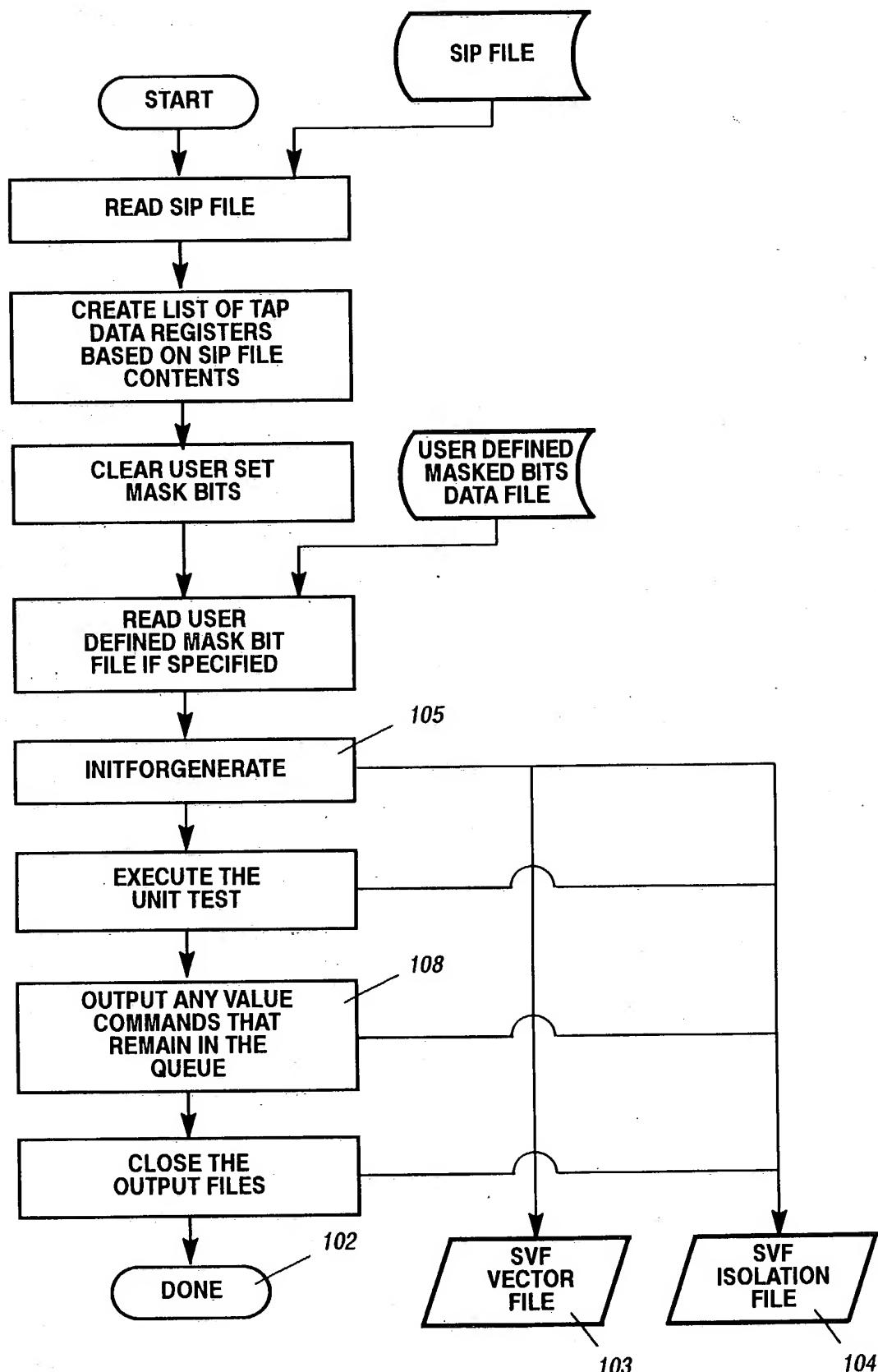


**Figure 9**



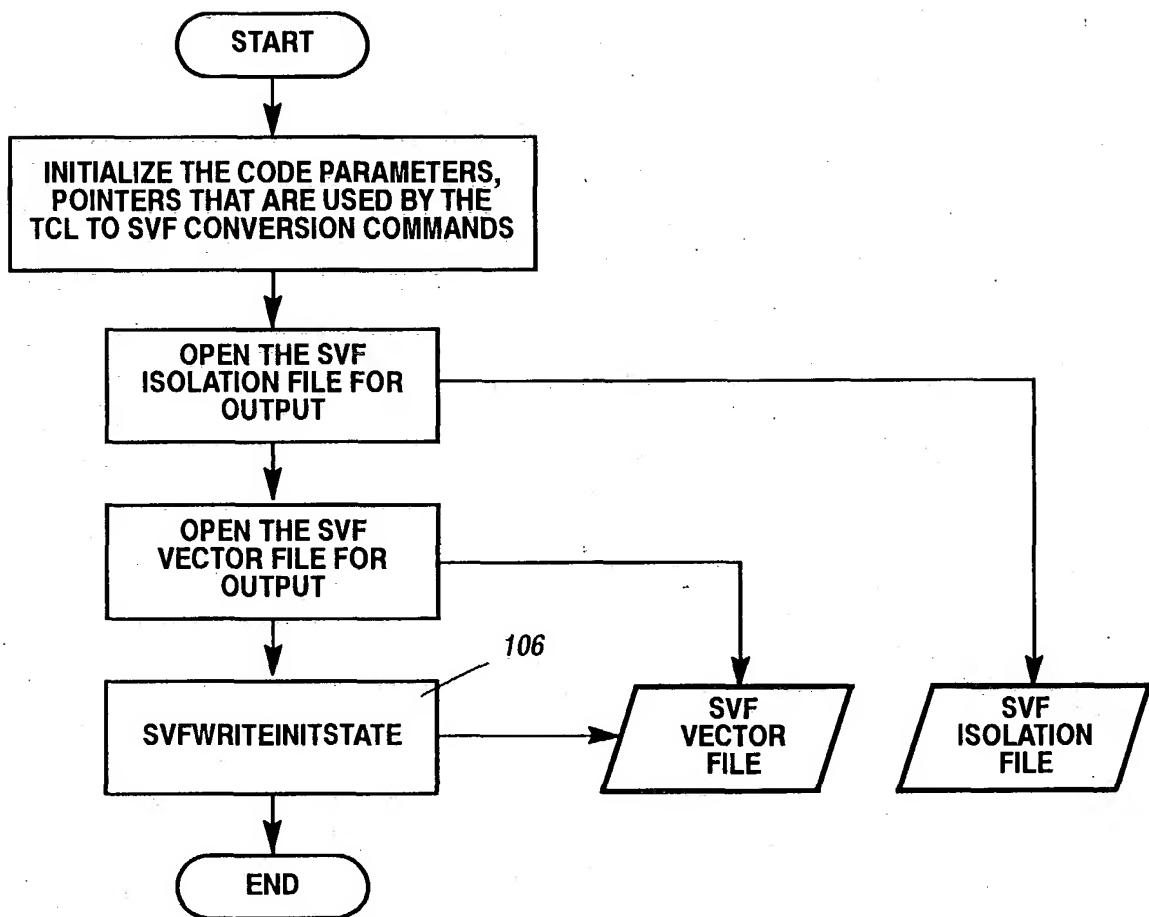
## UNIT TEST TO SVF FORMAT CONVERSION PROCESS

**Figure 10A**



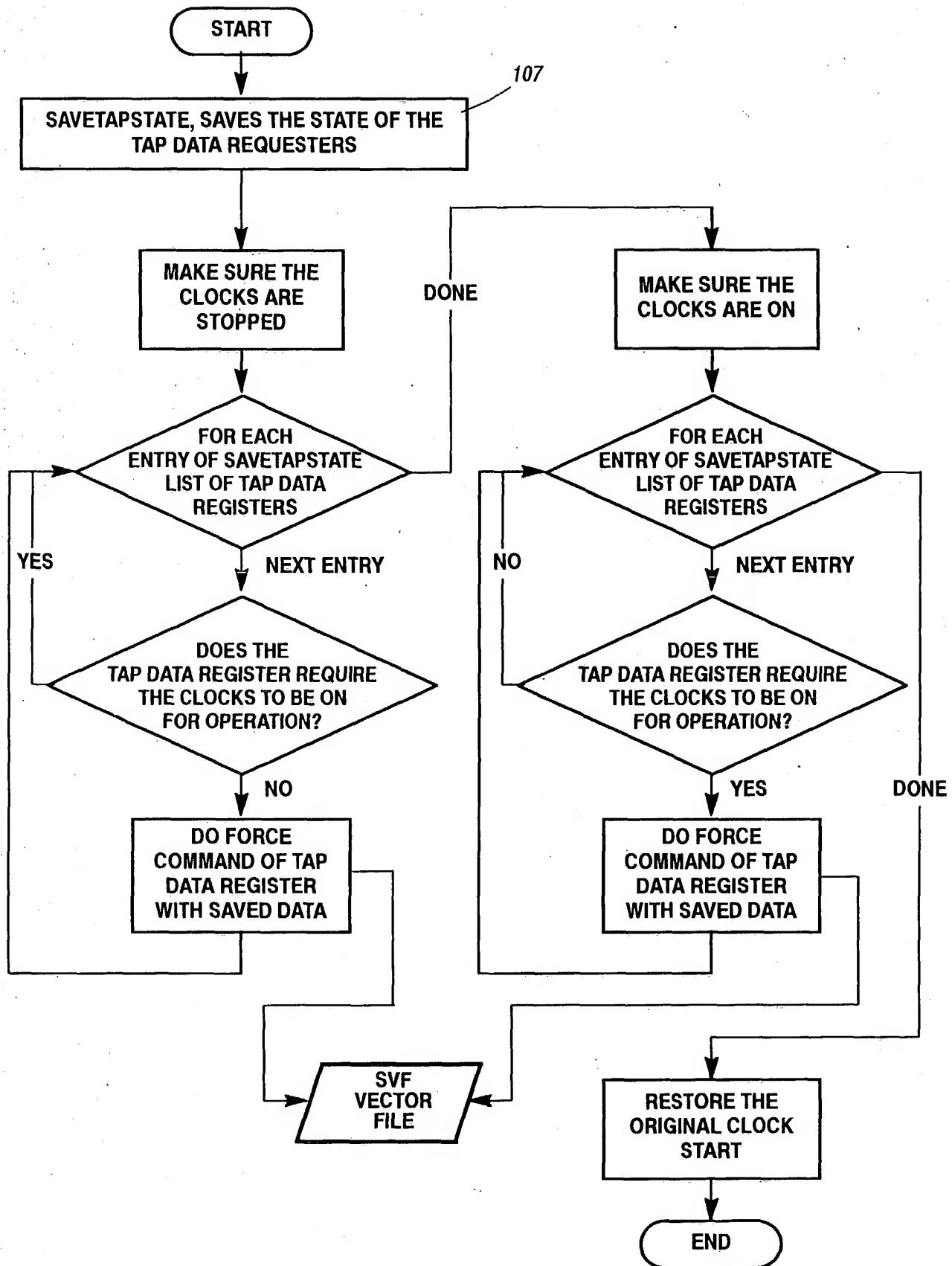
GENERATESVFFILE FLOWCHART

Figure 10B

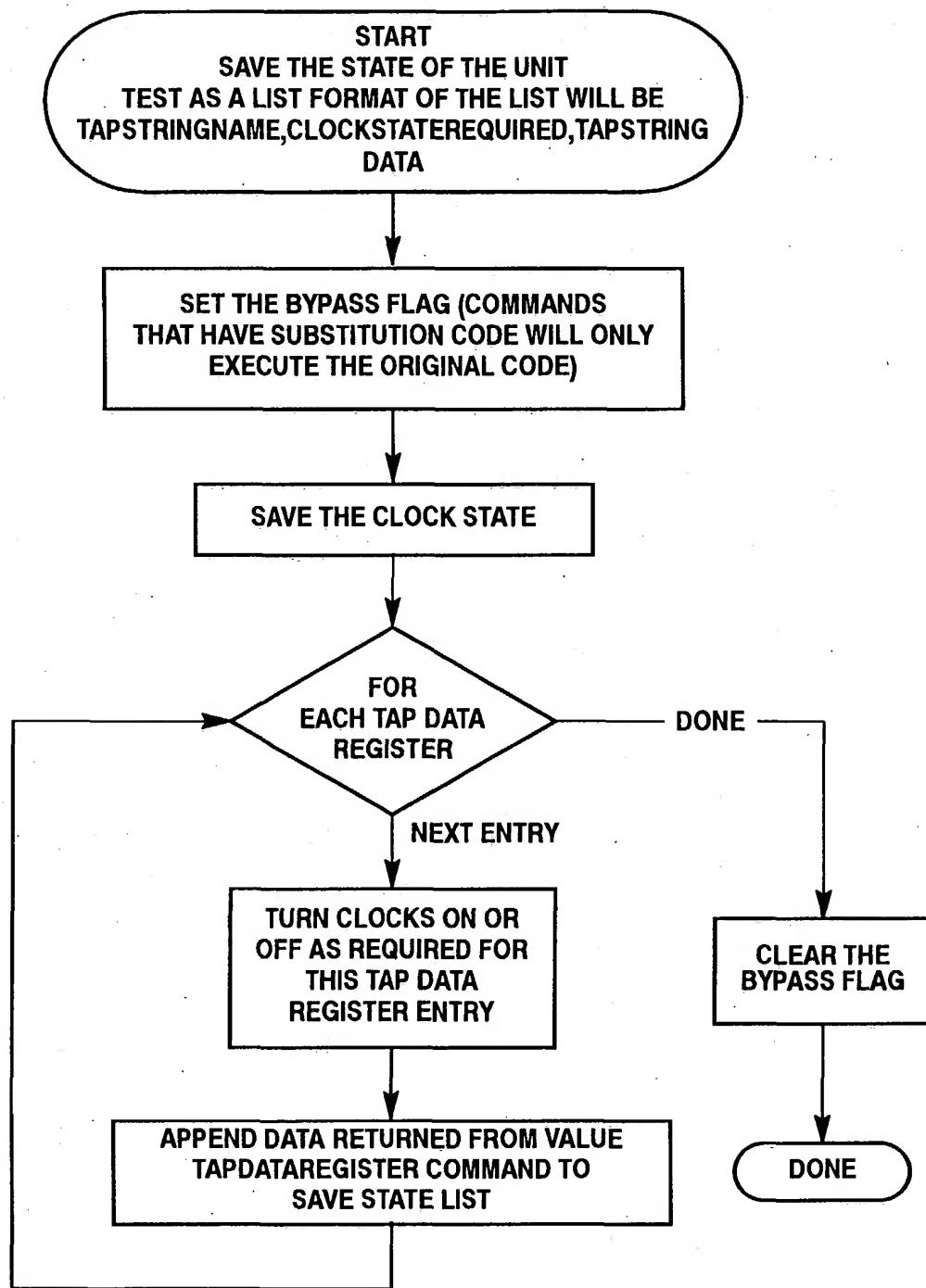


**TCL CODE FOR INITFORGENERATE COMMAND FOR TCL  
TO SVF FORMAT CONVERSION**

**Figure 10C**

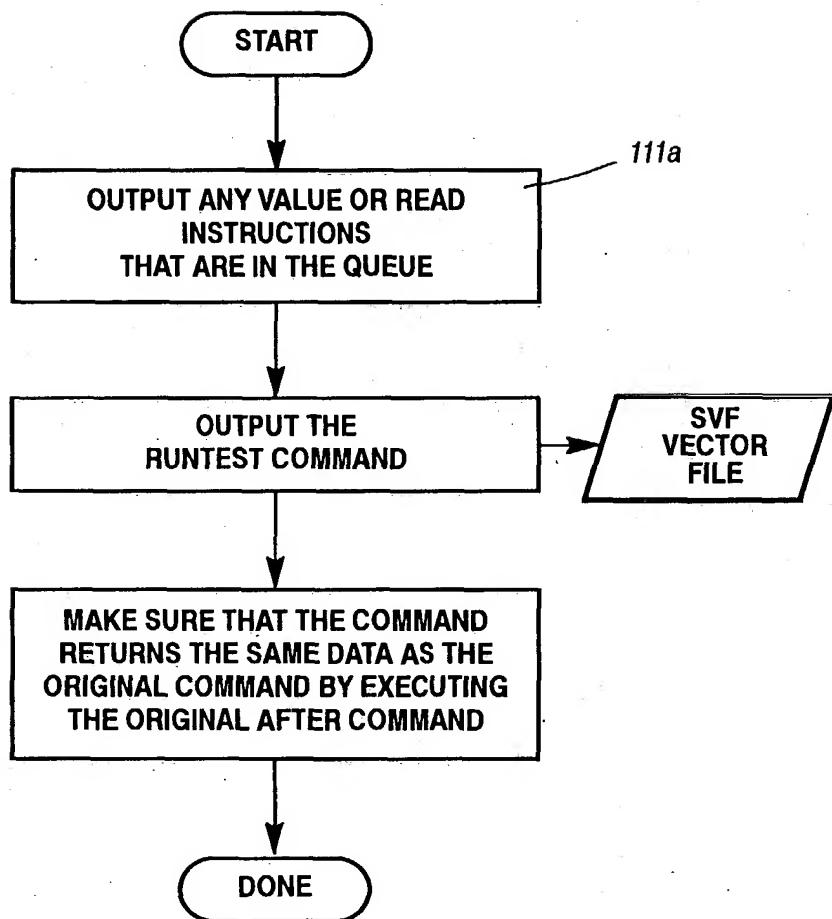


TCL WRITEINITSTATE COMMAND FOR SVF TO TCL CONVERSION  
**Figure 10D**

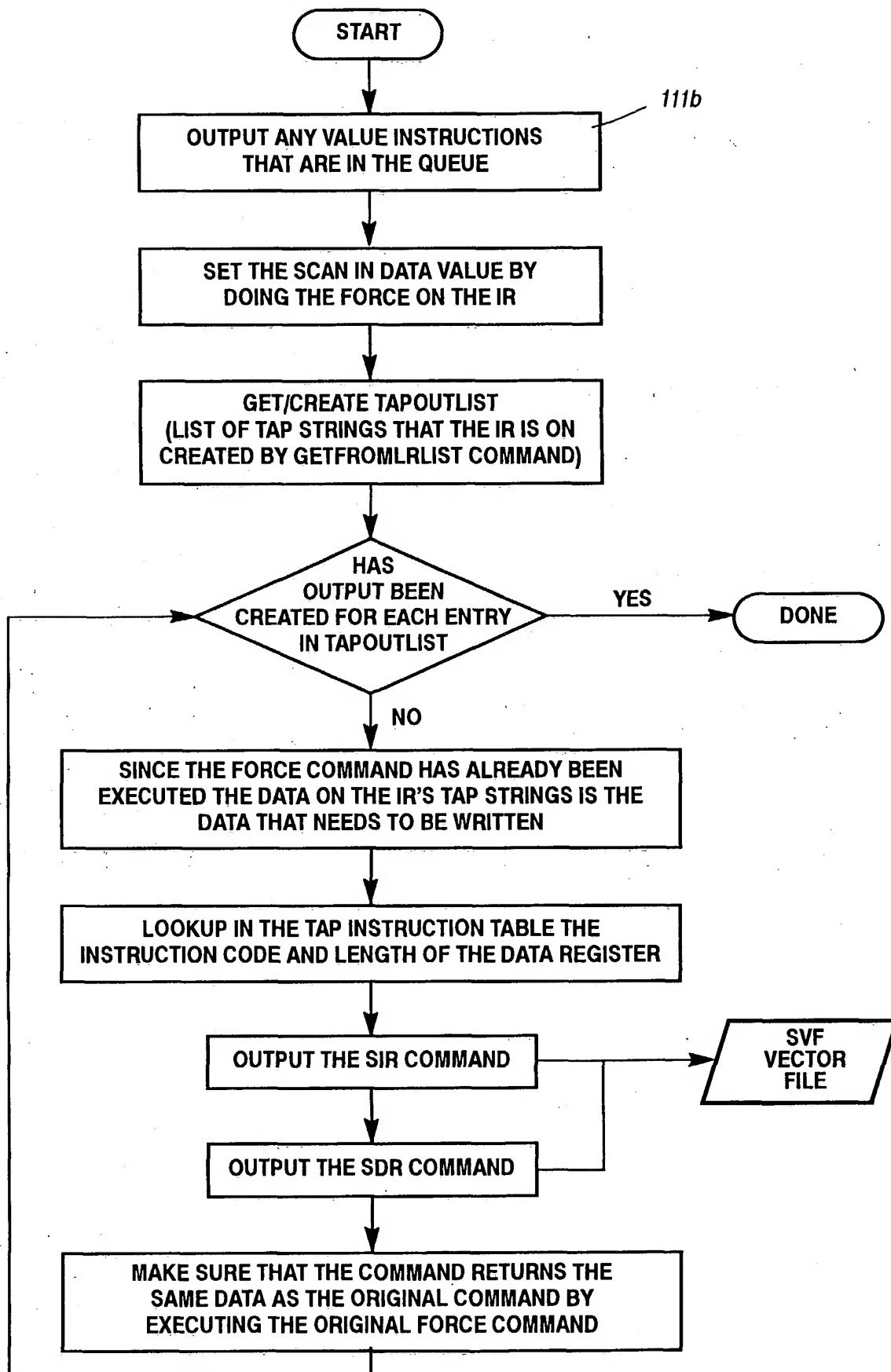


**SAVE STATE TEL COMMAND FOR TEL TO SVF CONVERSION**

**Figure 10E**

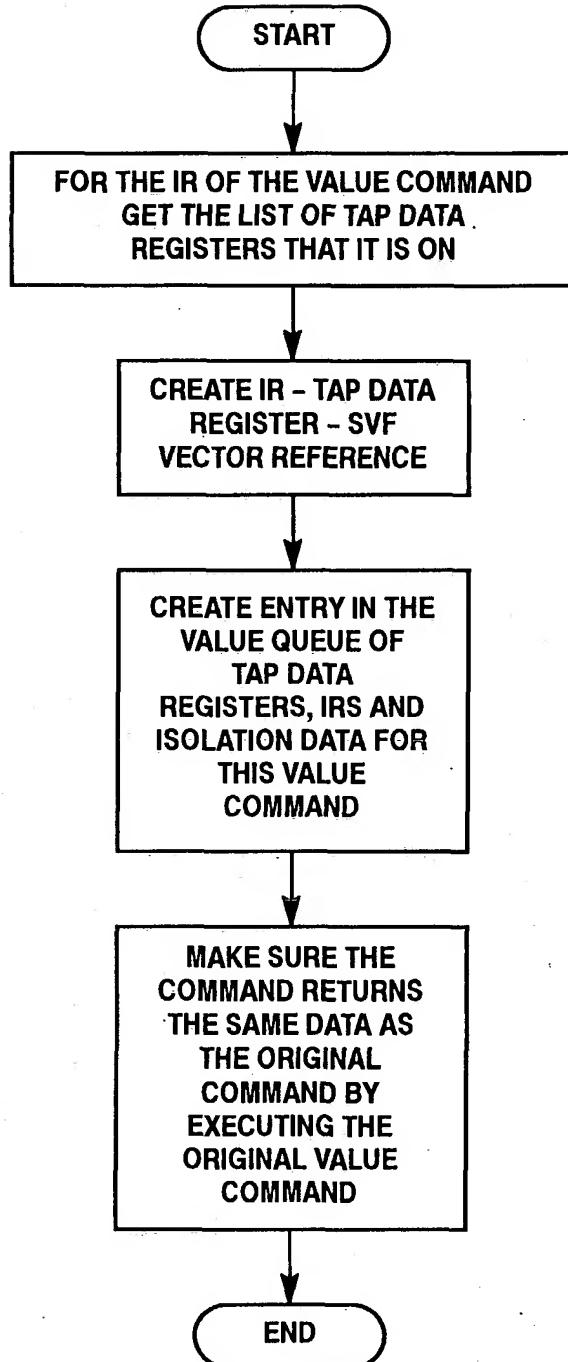


**TCL CODE TO CONVERT AFTER COMMAND TO SVF FORMAT**  
**Figure 10F**



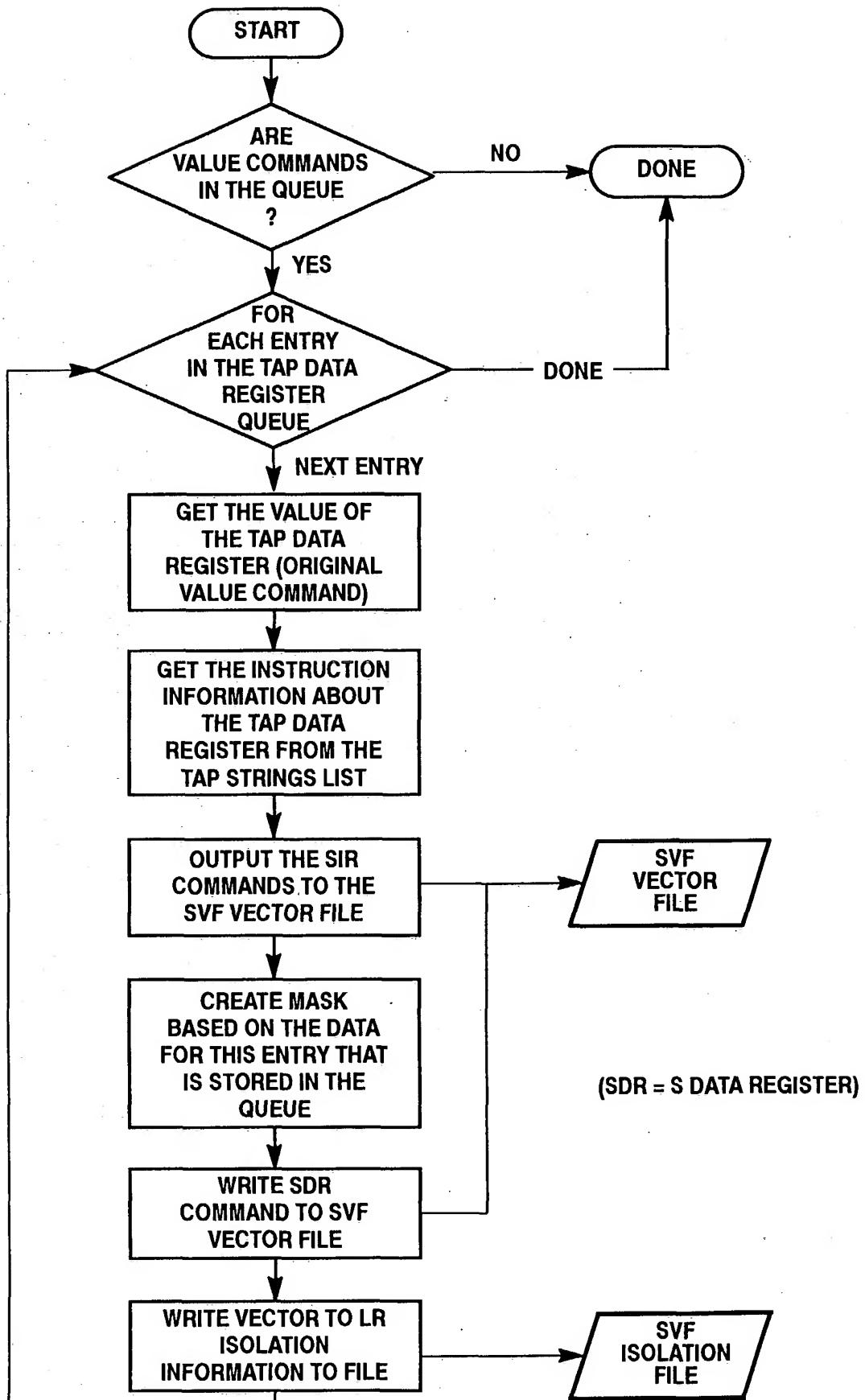
TCL CODE TO CONVERT FORCE COMMAND TO SVF FORMAT

Figure 10G



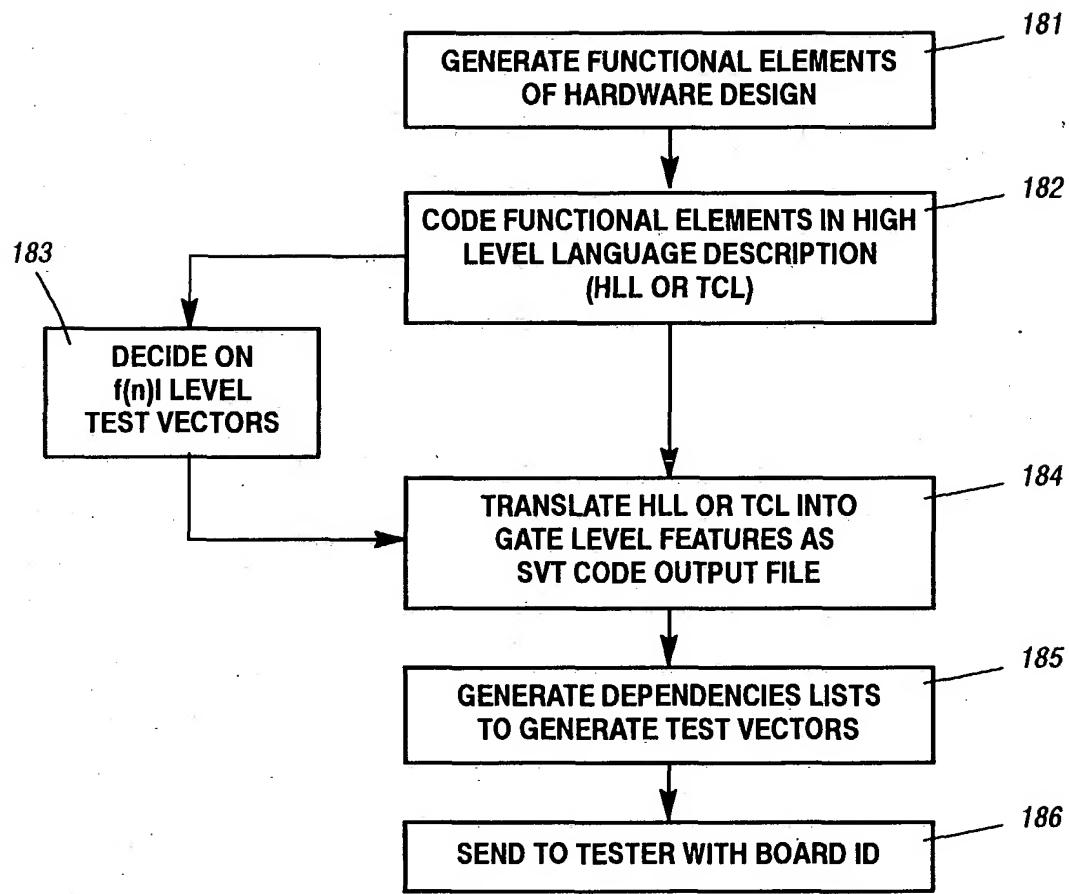
**TCL CODE TO CONVERT VALUE COMMAND TO SVF FORMAT**

**Figure 10H**



**EXPANSION OF OUTPUT VALUE INSTRUCTIONS IN QUEUE  
(IIIa AND IIIb) FROM FIG. 10F AND 10G**

**Figure 10I**



**Figure 11**